

## Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 250 WATTS

SCALA YA7-FML/V ANTENNA GAIN: 5.01

128 FEET ANDREW 1/2-INCH FOAM COAX (LDF4-50A) EFFICIENCY: 0.828

AAT BP-IR-3-1K-N BANDPASS FILTER EFFICIENCY: .783

(1) 4' 1/2" JUMPER EFFICIENCY: .994

TPO: 77.4326 WATTS

CONFIRMATION:  $77.4326 \times 5.01 \times .828 \times .783 \times .994 = 250.0000$  WATTS

NOTE: TRANSMITTER POWER OUTPUT FIGURE SHOWN AS .078KW (100.7%) RATHER THAN .077KW (99.44%) DUE TO ROUNDING AND RESOLUTION OF THE FORM